



| | | | | | | | | | | |
|--------|------------|--|---------------|-----------|-----------|----------|------|------|----------|-------|
| PubMed | Nucleotide | Protein | Genome | Structure | PopSet | Taxonomy | OMIM | Book | | |
| Search | PubMed | ▼ | for | | | | | Go | Clear | |
| | | <input checked="" type="checkbox"/> Limits | Preview/Index | History | Clipboard | Details | | | | |
| | | Display | Abstract | ▼ | Sort | ▼ | Save | Text | Clip Add | Order |

Entrez PubMed

☐ 1: Mol Cell Biol 1992 Jun;12(6):2866-71[Related Articles](#), [NEW](#) [Links](#)

A transcriptionally active DNA-binding site for human p53 protein complexes.

Funk WD, Pak DT, Karas RH, Wright WE, Shay JW.

Department of Cell Biology and Neuroscience, University of Texas Southwestern Medical Center, Dallas 75235-9039.

Recent studies have demonstrated transcriptional activation domains within the tumor suppressor protein p53, while others have described specific DNA-binding sites for p53, implying that the protein may act as a transcriptional regulatory factor. We have used a reiterative selection procedure (CASTing: cyclic amplification and selection of targets) to identify new specific binding sites for p53, using nuclear extracts from normal human fibroblasts as the source of p53 protein. The preferred consensus is the palindrome GGACATGCCCGGGCATGTCC. In vitro-translated p53 binds to this sequence only when mixed with nuclear extracts, suggesting that p53 may bind DNA after posttranslational modification or as a complex with other protein partners. When placed upstream of a reporter construct, this sequence promotes p53-dependent transcription in transient transfection assays.

PMID: 1588974 [PubMed - indexed for MEDLINE]

| | | | | | | | | |
|---------|----------|---|------|---|------|------|----------|-------|
| Display | Abstract | ▼ | Sort | ▼ | Save | Text | Clip Add | Order |
|---------|----------|---|------|---|------|------|----------|-------|

[Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)
[Department of Health & Human Services](#)
[Freedom of Information Act](#) | [Disclaimer](#)